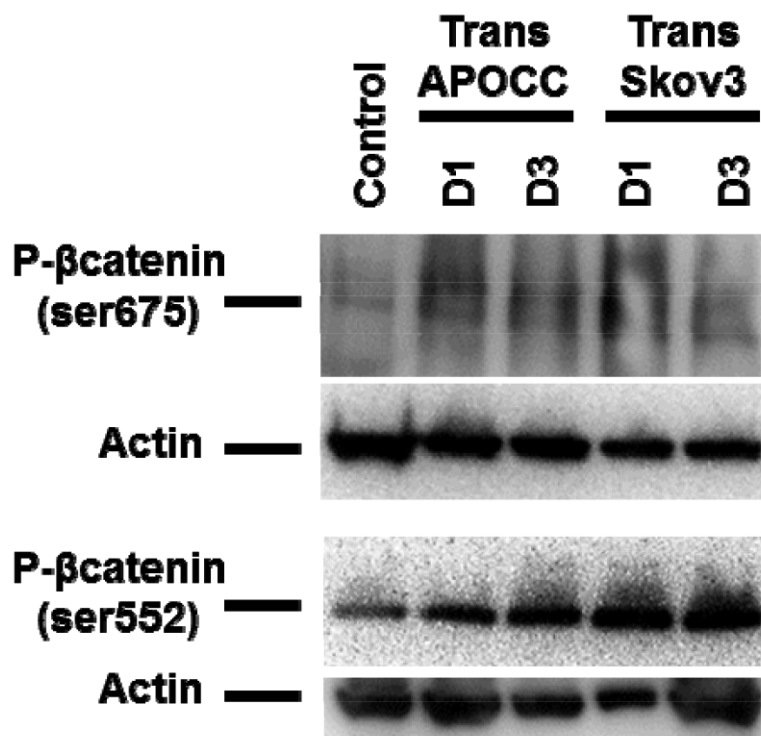
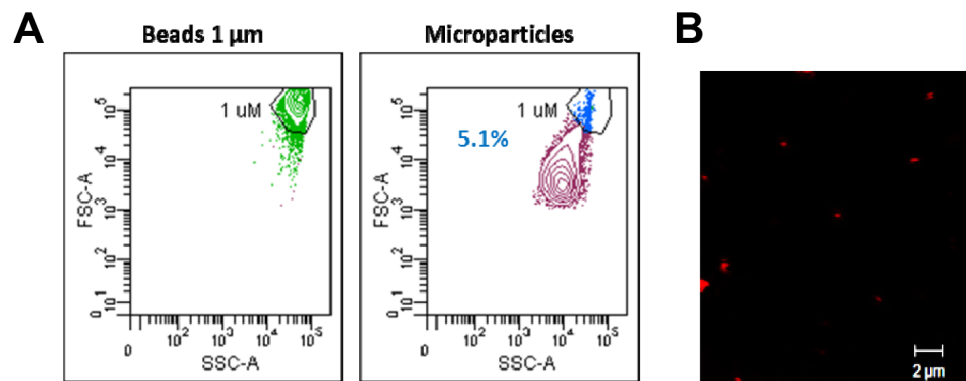


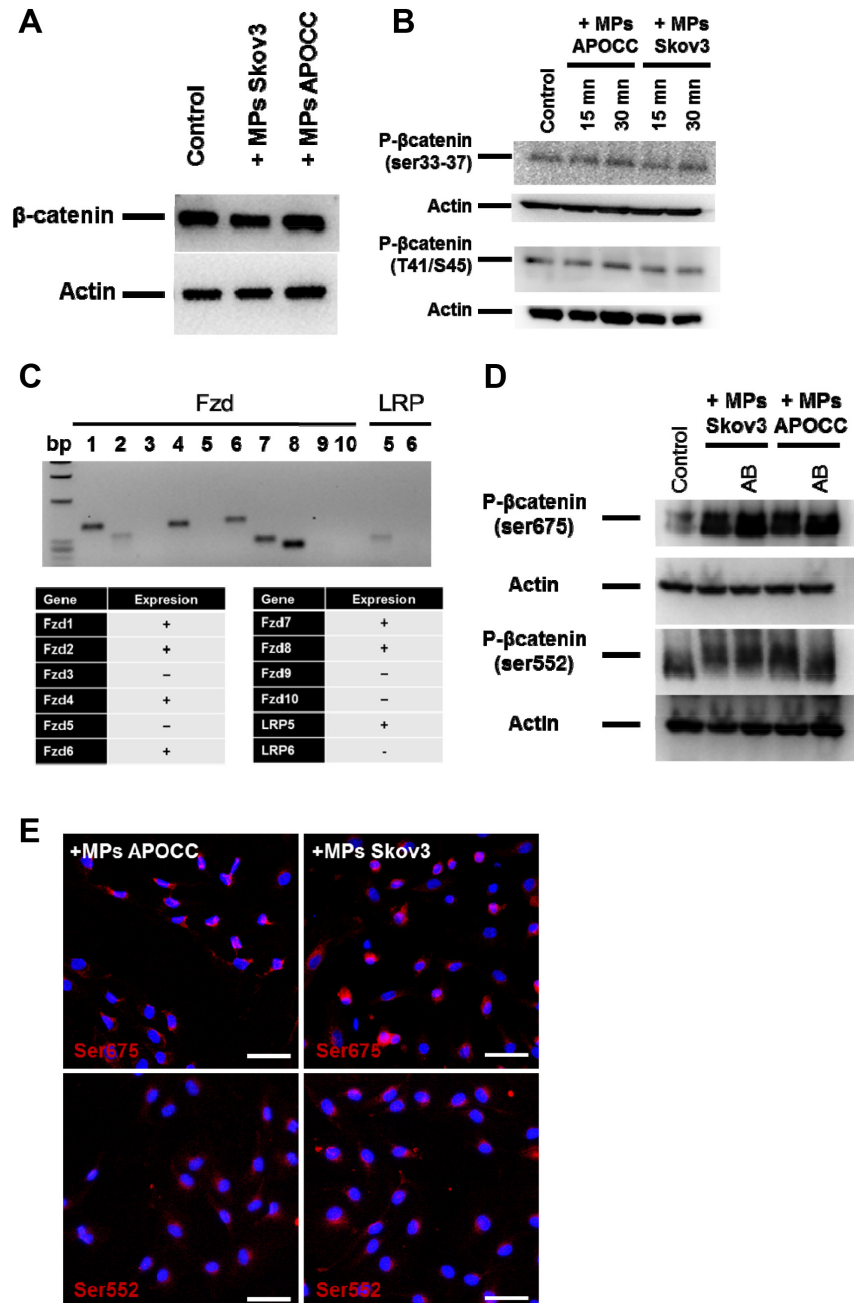
## SUPPLEMENTARY FIGURES



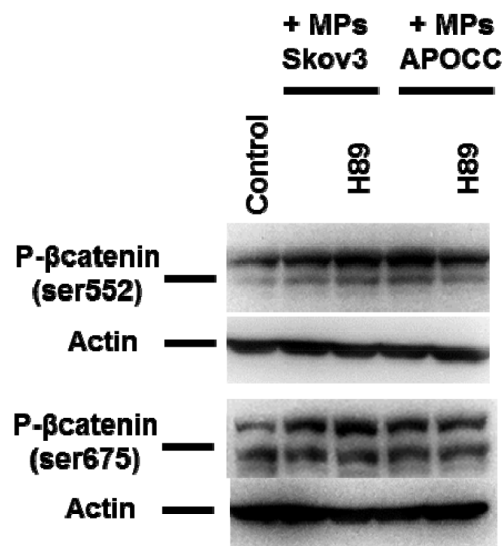
**Supplementary Figure S1: Transwell experiment.** The co-culture of E4+ECs and OCC was repeated using transwell chamber. Western blot reveals a phosphorylation of  $\beta$ -catenin for the sites studied after co-culture with Skov3 or APOCC.  $p < 0.05$  (\*),  $p < 0.01$  (\*\*) or  $p < 0.001$  (\*\*\*).



**Supplementary Figure S2: A.** Characterization of OCC-MPs by flow cytometry. 1  $\mu\text{m}$  beads were used to calibrate the gate. OCC-MPs are smaller than 1  $\mu\text{m}$  **B.** Characterization of OCC-MPs by confocal microscopy. OCC-MPs are smaller than 1  $\mu\text{m}$ .



**Supplementary Figure S3: A.** Quantification of  $\beta$ -catenin. E4+ECs were serum starved for 24 hours and treated or not (control) with MPs from Skov3 or APOCC for 30 minutes. No increase of  $\beta$ -catenin could be observed in the treated samples. **B.** Quantification of  $\beta$ -catenin phosphorylation at Ser33–37 and T41–S45. E4+ECs were serum starved for 24 hours and treated or not (control) with MPs from Skov3 or APOCC for 15 or 30 minutes. No increase of  $\beta$ -catenin phosphorylation on the two sites studied could be observed in the treated samples. **C.** Frizzled and LRP expression in E4+ECs. PCR for all human primers for frizzled 1 to 10 and LRP5 and 6 have been performed (top panel). The table summarizes the Frizzled and LRP expression by our cells. **D.**  $\beta$ -catenin phosphorylation in the presence of frizzled inhibitor. E4+ECs, serum-starved for 24 h, were treated or not with a cocktail of antibodies against frizzled 1, 2, 4, 6, 7, 8 and LRP5 6 hours prior the incubation with OCC-MPs during 15 minutes. Western blots for the phosphorylation of  $\beta$ -catenin at the sites Ser675 and Ser552 were performed. The inhibition of frizzled and LRP didn't modify the phosphorylation of  $\beta$ -catenin induced by OCC-MPs. **E.** Phospho- $\beta$ -catenin localization. E4+ECs, serum-starved for 24 h, were treated with a cocktail of antibodies against frizzled 1, 2, 4, 6, 7, 8 and LRP5 6 hours prior the incubation with OCC-MPs during 1 hour. E4+ECs were stained for the phosphorylation of  $\beta$ -catenin at the sites Ser675 and Ser552 and analysed by confocal microscopy. The inhibition of frizzled and LRP didn't modify the phosphorylation of  $\beta$ -catenin and its translocation induced by OCC-MPs.



**Supplementary Figure S4: Phosphorylation of  $\beta$ -catenin in the presence of PKA inhibitor.** E4+ECs, serum-starved for 24 h, were pre-treated or not with H-89 (10  $\mu$ M). Phosphorylation of  $\beta$ -catenin at the sites Ser675 and Ser552 were analyzed by western blot. H-89 was not able to reduce the phosphorylation of  $\beta$ -catenin at Ser552 neither at Ser675.